

EUR Research Information Portal

Predicting adverse events during therapy for HIV and hepatitis C : the role of ITPase activity and ITPA genotype

Publication status and date:

Published: 03/07/2019

Document Version

Publisher's PDF, also known as Version of record

Citation for the published version (APA):

Peltenburg, C. (2019). *Predicting adverse events during therapy for HIV and hepatitis C : the role of ITPase activity and ITPA genotype*. [Doctoral Thesis, Erasmus University Rotterdam]. Erasmus Universiteit Rotterdam (EUR).

[Link to publication on the EUR Research Information Portal](#)

Terms and Conditions of Use

Except as permitted by the applicable copyright law, you may not reproduce or make this material available to any third party without the prior written permission from the copyright holder(s). Copyright law allows the following uses of this material without prior permission:

- you may download, save and print a copy of this material for your personal use only;
- you may share the EUR portal link to this material.

In case the material is published with an open access license (e.g. a Creative Commons (CC) license), other uses may be allowed. Please check the terms and conditions of the specific license.

Take-down policy

If you believe that this material infringes your copyright and/or any other intellectual property rights, you may request its removal by contacting us at the following email address: openaccess.library@eur.nl. Please provide us with all the relevant information, including the reasons why you believe any of your rights have been infringed. In case of a legitimate complaint, we will make the material inaccessible and/or remove it from the website.

List of publications

PhD portfolio

Curriculum vitae

Dankwoord

LIST OF PUBLICATIONS

- **Peltenburg N.C.***, Wijting I.E.A.*, Rokx C., Bakker, J.A., Rijnders B.J.A., Bierau J. and Verbon A. Inosine 5'-triphosphatase activity is associated with TDF-associated nephrotoxicity in HIV. *Submitted*. * *Joint first authorship*.
- **Peltenburg N.C.***, Schoeman J.C.*, Hou J., Mora F., Harms A.C., Lowe S.H., Bierau J., Bakker J.A., Verbon A., Hankemeier T. and Boonstra A. Persistent metabolic changes in HIV-infected patients during the first year of combination antiretroviral therapy. *Scientific Reports* 2018. Nov 16; 8(1): 16947. PubMed PMID: 30446683. * *Joint first authorship*.
- **Peltenburg N.C.**, Bierau J., Schippers J.A., Lowe S.H., Paulussen A.D.C., Van den Bosch B.J.C., Leers M.P.G., Andrinopoulou E.R., Bakker J.A. and Verbon A. Metabolic events in HIV-infected patients using abacavir are associated with erythrocyte inosine triphosphatase activity. *Journal of Antimicrobial Chemotherapy* 2019 Jan 1; 74(1): 157-164. PubMed PMID: 30304447
- **Peltenburg N.C.**, Bierau J., Bakker J.A., Schippers J.A., Lowe S.H. Paulussen A.D.C., Van den Bosch B.J.C., Leers M.P.G., Hansen B.E. and Verbon A. Erythrocyte inosine triphosphatase activity: a potential biomarker for adverse events during combination antiretroviral therapy for HIV. *PLoS One* 2018. Jan 12; 13(1): e0191069. PubMed PMID: 29329318
- **Peltenburg N.C.**, Leers M.P.G., Bakker J.A., Lowe S.H., Vroemen W.H.M., Paulussen A.D.C., Van den Bosch B.J.C, Bierau J. and Verbon A. Inosine triphosphate pyrophosphohydrolase expression: decreased in leukocytes of HIV-infected patients using combination antiretroviral therapy. *Journal of Acquired Immune Deficiency Syndromes* 2016 Dec 1; 73(4): 390-395. PubMed PMID: 27792682
- **Peltenburg N.C.**, Bakker J.A., Vroemen W.H.M., de Knegt R.J., Leers M.P.G., Bierau J. and Verbon A. Inosine triphosphate pyrophosphohydrolase activity: more accurate predictor for ribavirin-induced anemia in hepatitis C infected patients than *ITPA* genotype. *Clinical Chemistry and Laboratory Medicine* 2015 Nov; 53(12): 2012-2019. PubMed PMID: 25968438

PHD PORTFOLIO

Name: Nicole Chantal Peltenburg
 Erasmus MC Departments: Internal Medicine and Medical Microbiology and Infectious Diseases
 Promotor: Prof. Dr. Annelies Verbon
 Copromotors: Dr. Jörgen Bierau and Dr. Jaap A. Bakker

Presentations

- 2014 Oral presentation, Spring congress Dutch Association for Clinical chemistry and laboratory medicine, Veldhoven. Winner category 'clinical'
- 2015 Oral presentation, Science Days Internal medicine, Antwerp, Belgium
- 2016 Poster presentation, Spring congress Dutch Association for Clinical chemistry and laboratory medicine, Veldhoven, The Netherlands
- 2016 2 Poster presentations, 26th ECCMID, Amsterdam, The Netherlands
- 2016 Poster presentation, International congress on drug therapy in HIV infection, Glasgow, United Kingdom
- 2016 Oral presentation, MMIZ research meeting, Rotterdam, The Netherlands
- 2016 Poster presentation, Science Days Internal medicine, Antwerp, Belgium
- 2017 Oral presentation, Midsummer meeting NVHB, Utrecht, The Netherlands
- 2017 Oral presentation, MMIZ research meeting, Rotterdam, The Netherlands
- 2019 Oral poster presentation, 29th ECCMID, Amsterdam, The Netherlands

(Inter)national conferences and meetings

- 2011 2x MINC symposium Mycology and immunosuppressive therapy and infections, Maastricht, The Netherlands
- 2012 2nd Euregional Maastricht symposium on Immune Compromised Travelers, Maastricht, The Netherlands
- 2012 NIV dagen, Maastricht, The Netherlands
- 2012 Symposium Infectious diseases, AMC, Amsterdam, The Netherlands
- 2012 Tropical medicine meeting, AMC, Amsterdam, The Netherlands
- 2013 2x MINC symposium Gastro-intestinal infections and Immunogenetics, Maastricht, The Netherlands
- 2014 MINC symposium Infections in nursing homes, Maastricht, The Netherlands
- 2014 3th Euregional Maastricht symposium on Immune Compromised Travelers, Maastricht, The Netherlands
- 2014 HIV drug therapy congress, Glasgow, United Kingdom
- 2015 11th Workshop on HIV and hepatitis co-infection, London, United Kingdom

- 2015 Update and future challenges in the national and global fight against HCV, HBV, HIV, TB and Tropical diseases, Arnhem, The Netherlands
- 2016 26th European Congress on Clinical Microbiology and Infectious Diseases (ECCMID), Amsterdam, The Netherlands
- 2016 International congress on drug therapy in HIV infection, Glasgow, United Kingdom
- 2017 NIV dagen, Maastricht, The Netherlands
- 2017 Midsummer meeting NVHB, Utrecht, The Netherlands
- 2017 Symposium Infectious diseases, Amsterdam, The Netherlands
- 2018 Conference on Retroviruses and Opportunistic Infections (CROI), Boston, United States of America
- 2018 Boerhaave course on Infectious Diseases, Noordwijkerhout, The Netherlands

Courses

- 2010 HIV Masterclass, Virology Education, Utrecht, The Netherlands
- 2011 Hepatitis Masterclass, Virology Education, Utrecht, The Netherlands
- 2012 Vaccination Masterclass, Virology Education, Utrecht, The Netherlands
- 2013 Basic clinical teaching, Maastricht UMC+, Maastricht, The Netherlands
- 2016 Basis course on Regulations and Organisation for clinical investigators (BROK), Dutch federation of University Medical Centers (NFU)
- 2017 Research Integrity, Erasmus MC, Rotterdam, The Netherlands
- 2018 Teach the teacher III, Rotterdam, The Netherlands

Teaching

- 2010-ongoing Supervising doctorate and medical students
- 2014-ongoing Education of residents Internal medicine and Medical Microbiology and Infectious Diseases
- 2014-ongoing Yearly elective course 2nd year medical students: Infections of the big city

Research grants

- 2015 ZonMW, A metabolomics approach to improve personalized medicine in patients chronically infected with HIV. Co-applicant.
- 2017 NVHB, Tenofovir toxicity: association with inosine triphosphate pyrophosphohydrolase activity and *ITPA* genotype

CURRICULUM VITAE

Nicole Chantal Peltenburg was born on July 2nd 1980 in The Hague, The Netherlands. After she graduated in 1998 from the Fioretcollege in Lisse, she studied Pedagogy and Educational Sciences at the University of Amsterdam, The Netherlands, for one year, which she finished cum laude. In 1999 she started medical school at the University of Leiden, the Netherlands. After receiving her medical degree in April 2006, she worked for one year as a senior house officer in Internal Medicine in the Máxima Medical Center, in Eindhoven, The Netherlands, under supervision of Prof. dr. H.R. Haak. In 2007, she started as a resident in the Maastricht University Medical Center in Maastricht, The Netherlands (Prof. dr. C.D.A. Stehouwer and Prof. dr. R.P. Koopmans) and specialized in Infectious Diseases (Dr. S.H. Lowe). She started her PhD in 2010 at the Erasmus Medical Center, Rotterdam, The Netherlands, under supervision of Prof. dr. A. Verbon in collaboration with Dr. J. Bierau and Dr. J.A. Bakker, of which the results are presented in this thesis. After her training as internist-infectious disease specialist in 2014, she started working at the Erasmus Medical Center, Rotterdam, The Netherlands. Chantal is married to Aswin de Jong, and together they have three daughters: Celine (2011), Aimée (2013) and Anique (2017).

